

=> IFW: **Scan as Doc Code: SRNT <=**  
**Doc Date:**

## **TC 3700 Inventor Search Program**

See attached inventor searches for applications and/or patents to help resolve questions of overlapping subject matter. These searches are provided as an initial examination aid: examiners should perform updated or expanded PALM or EAST inventors searches as appropriate.

---

**Serial Number:** 10/667,112

- 1.) See attached printout of inventors listed in PALM**
  
  
  
  
  
  
  
  
- 2.) See attached EAST Inventor Search**  
**Printout shows Inventor search terms**

Day : Tuesday  
Date: 4/25/2006  
Time: 09:53:27

## PALM INTRANET

# Inventor Information for 10/667112

Inventor Name	City	State/Country
BORNZIN, GENE A.	SIMI VALLEY	CALIFORNIA

[Appln Info](#)[Contents](#)[Petition Info](#)[Atty/Agent Info](#)[Continuity Data](#)[Foreign Data](#)

Search Another: Application#   or Patent#

PCT /  /   or PG PUBS #

Attorney Docket #

Bar Code #

To go back use Back button on your browser toolbar.

Back to [PALM](#) | [ASSIGNMENT](#) | [OASIS](#) | Home page

US 20050277992 A1	US- PGPUB	20051215	Collecting and analyzing sensed information as a trend of heart failure progression or regression	607/9	600/509	Koh, Steve et al.
US 20050216067 A1	US- PGPUB	20050929	System and method for predicting a heart condition based on impedance values using an implantable medical device	607/17		Min, Xiaoyi et al.
US 20050215914 A1	US- PGPUB	20050929	System and method for evaluating heart failure based on ventricular end-diastolic volume using an implantable medical device	600/508		Bornzin, Gene A. et al.
US 20050125041 A1	US- PGPUB	20050609	Methods for ventricular pacing	607/9		Min, Xiaoyi et al.
US 20050080471 A1	US- PGPUB	20050414	Lead body construction	607/122		Chitre, Yougandh et al.
US 20050059897 A1	US- PGPUB	20050317	Statistical analysis for implantable cardiac devices	600/510		Snell, Jeffery D. et al.
US 20050055060 A1	US- PGPUB	20050310	Determination of respiratory characteristics from AV conduction intervals	607/17		Koh, Steve et al.
US 20040267321 A1	US- PGPUB	20041230	Method and apparatus for monitoring drug effects on cardiac electrical signals using an	607/3	607/9	Boileau, Peter et al.

			implantable cardiac stimulation device			
US 20040243210 A1	US- PGPUB	20041202	Fixation of a left heart medical lead in the coronary sinus	607/122	607/125	Morgan, Kevin L. et al.
US 20030195579 A1	US- PGPUB	20031016	Automatic capture using independent channels in bi- chamber stimulation	607/27		Bradley, Kerry et al.
US 20030171782 A1	US- PGPUB	20030911	Method and apparatus for using a rest mode indicator to automatically adjust control parameters of an implantable cardiac stimulation device	607/19		Florio, Joseph J. et al.
US 20030171781 A1	US- PGPUB	20030911	Method and apparatus for using a rest mode indicator to automatically adjust control parameters of an implantable cardiac stimulation device	607/17	607/19	Florio, Joseph J. et al.
US 20030163165 A1	US- PGPUB	20030828	Implantable cardiac stimulation device that defibrillates the atria while avoiding the ventricular vulnerable period and method	607/5		Bornzin, Gene A. et al.

US 20030153956 A1	US- PGPUB	20030814	Cardiac stimulation device including sleep apnea prevention and treatment	607/17		Park, Euljoon et al.
US 20030153955 A1	US- PGPUB	20030814	Cardiac stimulation device including sleep apnea prevention and treatment	607/17		Park, Euljoon et al.
US 20030153954 A1	US- PGPUB	20030814	Sleep apnea therapy device using dynamic overdrive pacing	607/17		Park, Euljoon et al.
US 20030153953 A1	US- PGPUB	20030814	Stimulation device for sleep apnea prevention, detection and treatment	607/17		Park, Euljoon et al.
US 20030130704 A1	US- PGPUB	20030710	Method and apparatus for dynamically adjusting a non- linear overdrive pacing response function	607/11		Florio, Joseph J. et al.
US 20030130703 A1	US- PGPUB	20030710	Method and apparatus for dynamically adjusting overdrive pacing parameters	607/11		Florio, Joseph J. et al.
US 20030083708 A1	US- PGPUB	20030501	Implantable cardiac stimulation system and method for automatic capture verification calibration	607/27		Bradley, Kerry et al.
US 20030074040 A1	US- PGPUB	20030417	System, device and method for placing a body implantable lead	607/119		Florio, Joseph J. et al.

			in the coronary sinus region of the heart			
US 20030050681 A1	US-PGPUB	20030313	Self-anchoring coronary sinus lead	607/125		Pianca, Anne M. et al.
US 20030045910 A1	US-PGPUB	20030306	Pacing mode to reduce effects of orthostatic hypotension and syncope	607/23		Sorensen, Chris et al.
US 20030040778 A1	US-PGPUB	20030227	Orientation of patient's position sensor using external field	607/17		Kroll, Mark W. et al.
US 20030040776 A1	US-PGPUB	20030227	Detection of patient's position and activity status using 3D accelerometer-based position sensor	607/9		Kroll, Mark W. et al.
US 20020120303 A1	US-PGPUB	20020829	Implantable cardiac device providing repetitive non-reentrant ventriculo-atrial synchronous (RNRVAS) rhythm therapy using VA interval extension and method	607/14		Levine, Paul A. et al.
US 20020120301 A1	US-PGPUB	20020829	Implantable cardiac device providing repetitive non-reentrant ventriculo-atrial synchronous (RNRVAS) rhythm therapy using secondary pacing pulses and method	607/9		Levine, Paul A. et al.

US 20020103524 A1	US- PGPUB	20020801	Implantable cardiac single pass coronary sinus lead for providing pacing and defibrillation and method of manufacture	607/122		Bornzin, Gene A. et al.
US 20020103523 A1	US- PGPUB	20020801	Implantable cardiac coronary sinus lead having a defibrillation electrode of split configuration and method of manufacture	607/122		Helland, John R. et al.
US 20020095190 A1	US- PGPUB	20020718	System and method for automating capture verification assessment and pacing threshold assessment using a programmer	607/28		Bornzin, Gene A. et al.
US 20020004672 A1	US- PGPUB	20020110	Implantable cardiac stimulation device with detection and therapy for patients with vasovagal syncope	607/9		Florio, Joseph J. et al.
US 20020004671 A1	US- PGPUB	20020110	System and method for preventing sudden heart rate drop using implantable cardiac pacing device	607/9		Bornzin, Gene A. et al.
US 20020004670 A1	US- PGPUB	20020110	Implantable cardiac stimulation device with	607/9		Florio, Joseph J. et al.

			detection and therapy for patients with vasovagal syncope			
US 20020002389 A1	US-PGPUB	20020103	Cardiac stimulation devices and methods for measuring impedances associated with the left side of the heart	607/8		Bradley, Kerry et al.
US 20010049542 A1	US-PGPUB	20011206	System and method for automatically verifying capture during multi-chamber stimulation	607/28		Florio, Joseph J. et al.
US 20010037136 A1	US-PGPUB	20011101	Lead with polymeric tubular liner for guidewire and stylet insertion	607/122		Pianca, Anne M. et al.
US 20010037135 A1	US-PGPUB	20011101	Lead with polymeric tubular liner for guidewire and stylet insertion	607/122		Pianca, Anne M. et al.
US 7024243 B1	USPAT	20060404	System and methods for preventing, detecting, and terminating pacemaker mediated tachycardia in biventricular implantable cardiac stimulation device	607/14	600/518	Bornzin; Gene A. et al.
US 7024241 B1	USPAT	20060404	Pacing pulse waveforms that	607/9		Bornzin; Gene A. et

			support simultaneous intracardiac signal sensing and analysis			al.
US 7006868 B2	USPAT	20060228	Method and apparatus for using a rest mode indicator to automatically adjust control parameters of an implantable cardiac stimulation device	607/19		Florio; Joseph J. et al.
US 6999817 B2	USPAT	20060214	Cardiac stimulation device including sleep apnea prevention and treatment	607/19	607/9	Park; Euljoon et al.
US 6990374 B1	USPAT	20060124	Methods and apparatus for overdrive pacing heart tissue using an implantable cardiac stimulation device	607/9		Florio; Joseph J. et al.
US 6988007 B1	USPAT	20060117	Single pass telescoping cardiac lead for the left heart	607/123	600/374; 607/125	Morgan; Kevin L. et al.
US 6968232 B2	USPAT	20051122	Method and apparatus for using a rest mode indicator to automatically adjust control parameters of an implantable cardiac stimulation device	607/18		Florio; Joseph J. et al.
US 6937900	USPAT	20050830	AC/DC multi-	607/19	607/18	Pianca;

B1			axis accelerometer for determining patient activity and body position			Anne M. et al.
US 6934587 B1	USPAT	20050823	System and method for automatic atrial capture detection and atrial pacing threshold determination	607/28		Bornzin; Gene A. et al.
US 6928324 B2	USPAT	20050809	Stimulation device for sleep apnea prevention, detection and treatment	607/20	607/18; 607/42	Park; Euljoon et al.
US 6925326 B1	USPAT	20050802	Implantable cardiac stimulation system and method for measuring atrioventricular conduction and adjusting atrioventricular hysteresis	600/510	607/9	Levine; Paul A. et al.
US 6915164 B2	USPAT	20050705	Automatic capture using independent channels in bi- chamber stimulation	607/29		Bradley; Kerry et al.
US 6904321 B1	USPAT	20050607	System and method of identifying fusion for dual-chamber automatic capture stimulation device	607/27		Bornzin; Gene A. et al.
US 6904320 B2	USPAT	20050607	Sleep apnea therapy device using dynamic overdrive pacing	607/17		Park; Euljoon et al.
US 6904317	USPAT	20050607	Method and	607/9	607/11	Florio;

B2				apparatus for dynamically adjusting overdrive pacing parameters			Joseph J. et al.
US 6889077 B2	USPAT	20050503	Implantable cardiac stimulation device that defibrillates the atria while avoiding the ventricular vulnerable period and method	607/4	607/63	Bornzin; Gene A. et al.	
US 6862471 B1	USPAT	20050301	Method and apparatus for blanking T-waves from combipolar atrial cardiac signals based on expected T-wave locations	600/509	607/9	McClure; Kelly H. et al.	
US 6832112 B1	USPAT	20041214	Method of adjusting an AV and/or PV delay to improve hemodynamics and corresponding implantable stimulation device	607/9		Bornzin; Gene A.	
US 6804556 B1	USPAT	20041012	Methods and apparatus for overdrive pacing heat tissue using an implantable cardiac stimulation device	607/9		Florio; Joseph J. et al.	
US 6792307 B1	USPAT	20040914	Implantable cardiac stimulation system and method for	607/9	600/509	Levine; Paul A. et al.	

				measuring atrioventricular conduction and adjusting atrioventricular hysteresis			
US 6782291 B1	USPAT	20040824	Implantable cardiac stimulation device with automatic evoked response sensing electrode configuration selection and method	607/28		Bornzin; Gene A. et al.	
US 6766195 B1	USPAT	20040720	Method and apparatus for detecting natural electrical coherence within the heart and for administering therapy based thereon	607/14	600/515; 607/4; 607/5	Bornzin; Gene A. et al.	
US 6760619 B1	USPAT	20040706	Two lead universal defibrillation, pacing and sensing system	607/4	607/123	Helland; John R. et al.	
US 6758854 B1	USPAT	20040706	Splittable occlusion balloon sheath and process of use	606/194	604/101.01	Butler; William et al.	
US 6748268 B1	USPAT	20040608	Three lead universal pacing and shocking system	607/4		Helland; John R. et al.	
US 6748261 B1	USPAT	20040608	Implantable cardiac stimulation device for and method of monitoring progression or regression of	600/510	600/509; 607/9	Kroll; Mark W. et al.	

				heart disease by monitoring interchamber conduction delays			
US 6745081 B1	USPAT	20040601	Coronary Sinus Cardiac Lead For Stimulating and Sensing The Atria of the Right and Left Heart and System	607/123		Helland; John R. et al.	
US 6741885 B1	USPAT	20040525	Implantable cardiac device for managing the progression of heart disease and method	600/509	600/529; 607/19; 607/20	Park; Euljoon et al.	
US 6731985 B2	USPAT	20040504	Implantable cardiac stimulation system and method for automatic capture verification calibration	607/28		Poore; John W. et al.	
US 6721601 B1	USPAT	20040413	System and method for automatic atrial capture detection and atrial pacing threshold determination	607/28		Bornzin; Gene A. et al.	
US 6721598 B1	USPAT	20040413	Coronary sinus cardiac lead for stimulating and sensing in the right and left heart and system	607/4	607/123	Helland; John R. et al.	
US 6711438 B1	USPAT	20040323	Method and apparatus for blanking T-waves from combipolar atrial cardiac signals based on expected T-wave locations	607/9		McClure; Kelly H. et al.	

US 6701187 B1	USPAT	20040302	Implantable cardiac stimulation device and method for prolonging atrial refractoriness	607/14		Bornzin; Gene A. et al.
US 6662047 B2	USPAT	20031209	Pacing mode to reduce effects of orthostatic hypotension and syncope	607/18	607/23	Sorensen; Chris et al.
US 6658292 B2	USPAT	20031202	Detection of patient's position and activity status using 3D accelerometer-based position sensor	607/19		Kroll; Mark W. et al.
US 6658283 B1	USPAT	20031202	Implantable cardiac stimulation device, system and method which provides an electrogram signal having the appearance of a surface electrocardiogram	600/510		Bornzin; Gene A. et al.
US 6650945 B2	USPAT	20031118	Implantable cardiac coronary sinus lead having a defibrillation electrode of split configuration and method of manufacture	607/122	607/123	Helland; John R. et al.
US 6650931 B1	USPAT	20031118	System and method of automatically determining the onsets and ends of cardiac events and far-field signals	600/510		McClure; Kelly H. et al.

US 6647295 B2	USPAT	20031111	Implantable cardiac stimulation device with detection and therapy for patients with vasovagal syncope	607/9	607/17	Florio; Joseph J. et al.
US 6640136 B1	USPAT	20031028	Implantable cardiac stimulation device with automatic electrode selection for avoiding cross-chamber stimulation	607/28		Helland; John R. et al.
US 6636766 B2	USPAT	20031021	System and method for preventing sudden heart rate drop using implantable cardiac pacing device	607/19	607/17	Bornzin; Gene A. et al.
US 6625493 B2	USPAT	20030923	Orientation of patient's position sensor using external field	607/17		Kroll; Mark W. et al.
US 6625492 B2	USPAT	20030923	Implantable cardiac stimulation device with detection and therapy for patients with vasovagal syncope	607/17	607/9	Florio; Joseph J. et al.
US 6625490 B1	USPAT	20030923	System and method of automatically adjusting sensing parameters based on temporal	607/9		McClure; Kelly H. et al.

			measurement of cardiac events			
US 6618619 B1	USPAT	20030909	Method and apparatus for reducing the effect of evoked responses on polarization measurements in an automatic capture pacing system	607/27	607/28	Florio; Joseph J. et al.
US 6606517 B1	USPAT	20030812	Methods and apparatus for preventing atrial arrhythmias by overdrive pacing and prolonging atrial refractoriness using an implantable cardiac stimulation device	607/14		Park; Euljoon et al.
US 6539259 B1	USPAT	20030325	System and method of automatically adjusting sensitivity in an implantable cardiac stimulation device	607/9		Weinberg; Lisa P. et al.
US 6519493 B1	USPAT	20030211	Methods and apparatus for overdrive pacing heart tissue using an implantable cardiac stimulation device	607/9		Florio; Joseph J. et al.
US 6512953 B2	USPAT	20030128	System and method for automatically verifying capture	607/28		Florio; Joseph J. et al.

				during multi-chamber stimulation			
US 6510342 B1	USPAT	20030121	Methods and apparatus for preventing atrial arrhythmias by overdrive pacing multiple heart tissue sites using an implantable cardiac stimulation device	607/15	607/14	Park; Euljoon et al.	
US 6498949 B2	USPAT	20021224	Implantable cardiac device providing repetitive non-reentrant ventriculo-atrial synchronous (RNRVAS) rhythm therapy using VA interval extension and method	607/14	607/9	Levine; Paul A. et al.	
US 6490489 B2	USPAT	20021203	Implantable cardiac single pass coronary sinus lead for providing pacing and defibrillation and method of manufacture	607/122		Bornzin; Gene A. et al.	
US 6477419 B2	USPAT	20021105	Implantable cardiac device providing repetitive non-reentrant ventriculo-atrial synchronous (RNRVAS) rhythm therapy using secondary pacing pulses and method	607/14	607/9	Levine; Paul A. et al.	

US 6466821 B1	USPAT	20021015	AC/DC multi-axis accelerometer for determining patient activity and body position	607/18	607/19	Pianca; Anne M. et al.
US 6459937 B1	USPAT	20021001	Endocardial pacing lead with detachable tip electrode assembly	607/126	607/119	Morgan; Kevin L. et al.
US 6456890 B2	USPAT	20020924	Lead with polymeric tubular liner for guidewire and stylet insertion	607/122		Pianca; Anne M. et al.
US 6456889 B2	USPAT	20020924	Lead with polymeric tubular liner for guidewire and stylet insertion	607/122		Pianca; Anne M. et al.
US 6456881 B1	USPAT	20020924	System and method of identifying fusion for dual-chamber automatic capture stimulation device	607/27		Bornzin; Gene A. et al.
US 6456880 B1	USPAT	20020924	Implantable cardiac stimulation device for and method of monitoring progression or regression of a patient's heart condition by monitoring ventricular repolarization interval dispersion	607/25		Park; Euljoon et al.
US 6449509 B1	USPAT	20020910	Implantable stimulation device having	607/20	600/533; 600/547; 607/17	Park; Euljoon et al.

				synchronous sampling for a respiration sensor			
US 6408210 B1	USPAT	20020618	System and method for automatic atrial capture detection and atrial pacing threshold determination	607/28			Bornzin; Gene A. et al.
US 6405091 B1	USPAT	20020611	Lead assembly with masked microdisk tip electrode and monolithic controlled release device	607/120	607/126		Vachon; David J. et al.
US 6389316 B1	USPAT	20020514	System and method for automatic atrial capture detection and atrial pacing threshold determination	607/28	607/11		Bornzin; Gene A. et al.
US 6377852 B1	USPAT	20020423	Implanatable cardiac stimulation device and method for prolonging atrial refractoriness	607/9			Bornzin; Gene A. et al.
US 6351672 B1	USPAT	20020226	System and method for modulating the pacing rate based on patient activity and position	607/19	607/17		Park; Euljoon et al.
US 6295471 B1	USPAT	20010925	System and method for automatic atrial capture detection and atrial pacing threshold determination	607/28			Bornzin; Gene A. et al.
US 6275733 B1	USPAT	20010814	Dual sensor rate response	607/18	607/19		Park; Euljoon et al.

				pacemaker			al.
US 6269264 B1	USPAT	20010731	Method for measuring impedance in the body	600/547	607/28		Weyant; Robert R. et al.
US 6175766 B1	USPAT	20010116	Cardiac pacemaker autothreshold arrangement and method with reliable capture	607/28			Bornzin; Gene A. et al.
US 6128534 A	USPAT	20001003	Implantable cardiac stimulation device and method for varying pacing parameters to mimic circadian cycles	607/17	607/25		Park; Euljoon et al.
US 6122546 A	USPAT	20000919	Pacemaker and method of operating same that provides functional atrial cardiac pacing with ventricular support	607/9			Sholder; Jason A. et al.
US 6058328 A	USPAT	20000502	Implantable stimulation device having means for operating in a preemptive pacing mode to prevent tachyarrhythmias and method thereof	607/14			Levine; Paul A. et al.
US 6044294 A	USPAT	20000328	Methods and apparatus for measuring impedance in the body	600/547	607/9		Mortazavi; Said et al.
US 5991661 A	USPAT	19991123	System and method for	607/19			Park; Euljoon et al.

			measuring cardiac activity			al.
US 5891176 A	USPAT	19990406	System and method for providing hemodynamically optimal pacing	607/18		Bornzin; Gene A.
US 5873895 A	USPAT	19990223	Pacemaker and method of operating same that provides functional atrial cardiac pacing with ventricular support	607/9		Sholder; Jason A. et al.
US 5814077 A	USPAT	19980929	Pacemaker and method of operating same that provides functional atrial cardiac pacing with ventricular support	607/9		Sholder; Jason A. et al.
US 5810739 A	USPAT	19980922	Methods and apparatus for classifying cardiac events with an implantable cardiac device	600/510		Bornzin; Gene A. et al.
US 5800467 A	USPAT	19980901	Cardio- synchronous impedance measurement system for an implantable stimulation device	607/17		Park; Euljoon et al.
US 5766229 A	USPAT	19980616	Capture verification method and apparatus for implantable pacemaker utilizing heart rhythm stability	607/28	607/16	Bornzin; Gene A.

				measurements to minimize the likelihood of fusion			
US 5733312 A	USPAT	19980331	System and method for modulating the output of an implantable medical device in response to circadian variations	607/17		Schloss; Harold C. et al.	
US 5718242 A	USPAT	19980217	Cardiac arrhythmia detection system for an implantable stimulation device and method	600/515	600/518; 600/521; 607/14	McClure; Kelly H. et al.	
US 5697956 A	USPAT	19971216	Implantable stimulation device having means for optimizing current drain	607/28		Bornzin; Gene A.	
US 5674274 A	USPAT	19971007	Implantable adjustable single-pass A-V lead for use with an implantable stimulation device	607/123	607/122	Morgan; Kevin L. et al.	
US 5643338 A	USPAT	19970701	Single-pass A-V lead for pacing with stimulation of right ventricular outflow tract	607/123	607/125	Bornzin; Gene A. et al.	
US 5628779 A	USPAT	19970513	Single-pass A-V pacing lead	607/123	607/125	Bornzin; Gene A. et al.	
US 5560369 A	USPAT	19961001	Cardiac arrhythmia detection system	600/518	600/517; 600/521	McClure; Kelly H. et al.	

			for an implantable stimulation device and method			
US 5549650 A	USPAT	19960827	System and method for providing hemodynamically optimal pacing therapy	607/24	607/25	Bornzin; Gene A. et al.
US 5549649 A	USPAT	19960827	Programmable pacemaker including an atrial rate filter for deriving a filtered atrial rate used for switching pacing modes	607/15		Florio; Joseph J. et al.
US 5540725 A	USPAT	19960730	Upper rate response for implantable pacemaker based on atrial lock interval pacing	607/9		Bornzin; Gene A. et al.
US 5514162 A	USPAT	19960507	System and method for automatically determining the slope of a transfer function for a rate-responsive cardiac pacemaker	607/19		Bornzin; Gene A. et al.
US 5513644 A	USPAT	19960507	Cardiac arrhythmia detection system for an implantable stimulation device	600/521	128/901	McClure; Kelly H. et al.
US 5509926 A	USPAT	19960423	Implantable medical device having means for suppressing	607/19		Mortazavi; Said et al.

			thermally induced signals from piezoelectric sensors and method thereof			
US 5476483 A	USPAT	19951219	System and method for modulating the base rate during sleep for a rate-responsive cardiac pacemaker	607/17		Bornzin; Gene A. et al.
US 4941475 A	USPAT	19900717	Thermodilution by heat exchange	600/505	600/526; 600/549	Williams; Wilbur R. et al.
US 4813421 A	USPAT	19890321	Oxygen sensing pacemaker	600/333	356/41; 607/22	Baudino; Michael D. et al.
US 4807629 A	USPAT	19890228	Oxygen sensing pacemaker	607/22	600/333; 600/510	Baudino; Michael D. et al.
US 4791935 A	USPAT	19881220	Oxygen sensing pacemaker	600/333	600/505	Baudino; Michael D. et al.
US 4725128 A	USPAT	19880216	Method for delivering light from multiple light emitting diodes over a single optical fiber	385/91	156/60; 156/64; 257/100; 257/89; 257/98; 257/99; 385/90	Bornzin; Gene A. et al.
US H000356 H	USPAT	19871103	Epicardial lead having low threshold, low polarization myocardial electrode	607/126	604/20; 607/122	Stokes; Kenneth B. et al.
US 4502492 A	USPAT	19850305	Low-polarization low-threshold electrode	607/121	607/126	Bornzin; Gene A.
US 4499907 A	USPAT	19850219	Energy limiting cardioversion lead	607/122		Kallok; Michael J. et al.
US 4467807 A	USPAT	19840828	Rate adaptive demand	607/22		Bornzin; Gene A.

				pacemaker				
--	--	--	--	-----------	--	--	--	--